

House File 535

H-1202

1 Amend House File 535 as follows:

2 1. By striking everything after the enacting clause and  
3 inserting:

4 <Section 1. NEW SECTION. 321.514 Definitions.

5 As used in this section and sections 321.515 through  
6 321.519, unless the context otherwise requires:

7 1. "*Automated driving system*" means the hardware and  
8 software collectively capable of performing all dynamic driving  
9 tasks on a sustained basis, regardless of whether the system is  
10 limited to a specific operational design domain, if any.

11 2. "*Conventional human driver*" means a natural person  
12 who manually controls the in-vehicle accelerating, braking,  
13 steering, and transmission gear selection input devices in  
14 order to operate a motor vehicle.

15 3. "*Driverless-capable vehicle*" means a system-equipped  
16 vehicle capable of performing all dynamic driving tasks within  
17 the automated driving system's operational design domain, if  
18 any, including but not limited to achievement of a minimal risk  
19 condition without intervention or supervision by a conventional  
20 human driver.

21 4. "*Dynamic driving task*" means any real-time operational  
22 and tactical function required to operate a motor vehicle on  
23 a highway in traffic within an automated driving system's  
24 specific operational design domain, if any. "*Dynamic driving*  
25 *task*" does not include any strategic function such as trip  
26 scheduling or the selection of destinations and waypoints.

27 5. "*Minimal risk condition*" means a reasonably safe state  
28 to which an automated driving system brings a system-equipped  
29 vehicle upon experiencing a performance-relevant failure of the  
30 system that renders the system unable to perform any dynamic  
31 driving task, including but not limited to removing the vehicle  
32 to the nearest shoulder if the vehicle is capable of doing so,  
33 bringing the vehicle to a complete stop, and activating the  
34 vehicle's emergency signal lamps.

35 6. "*On-demand driverless-capable vehicle network*" means a

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1 transportation service network that uses a software application  
2 or other digital means to dispatch driverless-capable vehicles  
3 for the purposes of transporting persons or goods, including  
4 transportation for hire as defined in section 325A.1, and  
5 public transportation.

6 7. "*Operational design domain*" means a set of constraints  
7 used to define the domain under which an automated driving  
8 system is designed to properly operate, including but not  
9 limited to types of highways, speed ranges, environmental  
10 conditions such as weather or time of day, and other  
11 constraints.

12 8. "*System-equipped vehicle*" means a motor vehicle equipped  
13 with an automated driving system.

14 Sec. 2. NEW SECTION. 321.515 Operation.

15 1. A driverless-capable vehicle may operate on the public  
16 highways of this state without a conventional human driver  
17 physically present in the vehicle, if the vehicle meets all of  
18 the following conditions:

19 a. The vehicle is capable of achieving a minimal risk  
20 condition if a malfunction of the automated driving system  
21 occurs that renders the system unable to perform any dynamic  
22 driving task within the system's intended operational design  
23 domain, if any.

24 b. While in driverless operation, the vehicle is capable of  
25 operating in compliance with the applicable traffic and motor  
26 vehicle safety laws and regulations of this state that govern  
27 the performance of dynamic driving tasks, unless an exemption  
28 has been granted to the vehicle by the department.

29 c. The vehicle has been certified by the vehicle's  
30 manufacturer to be in compliance with all applicable federal  
31 motor vehicle safety standards, except to the extent an  
32 exemption has been granted for the vehicle under applicable  
33 federal law or by the national highway traffic safety  
34 administration.

35 2. a. The operation of a system-equipped vehicle capable

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1 of performing all dynamic driving tasks within the automated  
2 driving system's operational design domain on the public  
3 highways of this state while a conventional human driver is  
4 present in the vehicle shall be lawful. During such operation,  
5 the conventional human driver shall possess a valid driver's  
6 license pursuant to section 321.174. The conventional human  
7 driver shall operate the system-equipped vehicle according  
8 to the manufacturer's requirements and specifications, and  
9 shall regain manual control of the vehicle when prompted by the  
10 automated driving system.

11     **b.** An automated driving system, while engaged, shall be  
12 designed to operate within the system's operational design  
13 domain in compliance with the applicable traffic and motor  
14 vehicle safety laws and regulations of this state that govern  
15 the performance of dynamic driving tasks, unless an exemption  
16 has been granted to the vehicle by the department.

17     **3.** Except as provided in this section, the motor vehicle  
18 laws of this state shall not be construed to require a  
19 conventional human driver to operate a driverless-capable  
20 vehicle that is being operated by an automated driving system.  
21 The automated driving system, while engaged, shall be deemed  
22 to fulfill any physical acts required of a conventional human  
23 driver to perform dynamic driving tasks.

24     **Sec. 3. NEW SECTION. 321.516 Insurance.**

25     Before a system-equipped vehicle is allowed to operate on  
26 the public highways of this state, the owner shall submit to  
27 the department proof of financial liability coverage for the  
28 vehicle in a manner and form determined by the department. A  
29 system-equipped vehicle shall not operate on the highways of  
30 this state unless financial liability coverage is in effect for  
31 the vehicle and unless proof of financial liability coverage is  
32 carried in the vehicle. If a system-equipped vehicle operates  
33 on a highway in violation of this section, the owner of the  
34 vehicle may be charged and convicted of a violation of section  
35 321.20B as though the owner was operating the vehicle.

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1       Sec. 4. NEW SECTION.   **321.517 Accidents.**

2       In the event of an accident in which a system-equipped  
3 vehicle is involved, the vehicle shall remain at the scene of  
4 the accident and the operation of the vehicle shall otherwise  
5 comply with sections 321.261 through 321.273 where applicable  
6 and to the extent possible, and the vehicle's owner or a person  
7 on behalf of the vehicle's owner shall promptly report the  
8 accident to law enforcement authorities. If a system-equipped  
9 vehicle fails to remain at the scene of an accident or the  
10 operation of the vehicle fails to otherwise comply with  
11 sections 321.261 through 321.273 where applicable and to the  
12 extent possible as required by this section, the vehicle's  
13 failure shall be imputed to the vehicle's owner, and the  
14 vehicle's owner may be charged and convicted of a violation of  
15 sections 321.261 through 321.273, as applicable. However, if  
16 the vehicle's failure is due to an error or malfunction in the  
17 automated driving system, the vehicle's failure shall instead  
18 be imputed to the vehicle's manufacturer, and the vehicle's  
19 manufacturer may be charged and convicted for a violation of  
20 sections 321.261 through 321.373, as applicable.

21       Sec. 5. NEW SECTION.   **321.518 On-demand driverless-capable**  
22 **vehicle network.**

23       A person may operate an on-demand driverless-capable vehicle  
24 network. An on-demand driverless-capable vehicle network may  
25 be used to facilitate the transportation of persons or goods,  
26 including transportation for hire as defined in section 325A.1,  
27 and public transportation. An on-demand driverless-capable  
28 vehicle network may connect passengers to driverless-capable  
29 vehicles either exclusively or as part of a digital network  
30 that also connects passengers to conventional human drivers  
31 who provide transportation services, consistent with chapter  
32 321N or any other applicable laws, in vehicles that are not  
33 driverless-capable vehicles.

34       Sec. 6. NEW SECTION.   **321.519 Authority.**

35       1. Automated driving systems and system-equipped vehicles

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1 shall be governed by sections 321.514 through 321.518, this  
2 section, and all applicable traffic and motor vehicle safety  
3 laws and regulations of this state. Automated driving systems  
4 and system-equipped vehicles shall be regulated exclusively by  
5 the department. The department may adopt rules pursuant to  
6 chapter 17A to administer sections 321.514 through 321.518, and  
7 this section.

8     2. A political subdivision of the state shall not impose  
9 requirements, including but not limited to performance  
10 standards, specific to the operation of system-equipped  
11 vehicles, automated driving systems, or on-demand  
12 driverless-capable vehicle networks that are in addition to  
13 the requirements set forth under sections 321.514 through  
14 321.518. A political subdivision of the state shall not  
15 impose a tax on system-equipped vehicles, automated driving  
16 systems, or on-demand driverless-capable vehicle networks  
17 where such tax relates specifically to the operation of  
18 system-equipped vehicles, automated driving systems, or  
19 on-demand driverless-capable vehicle networks.>

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